

ABSTRACT

COMMAND SCHEDULING IN COMPUTER NETWORKS

5 A computer network (1) comprises:- at least two processing nodes each
having a processor (4) on which one or more user processes are executed
and a respective network interface (2); and a switching network (3) which
operatively connects the at least two processing nodes together, each
network interface (2) including a command processor and a memory
10 wherein the command processor of said network interface (2) is configured
to allocate exclusively to a user process being executed on the processor
(4) with which the network interface (2) is associated one or more
segments of addressable memory in said network interface memory as a
respective one or more command queues. The network interface (2) is
15 capable of processing command data at high rates and with low latencies
whilst maintaining the security of individual user processes.

Fig. 1